

In the Claims:

This listing of claims replaces all prior versions.

1. (Previously presented) Power converter comprising:

a current path that includes an inductor for receiving energy from a power supply, and an output capacitor for providing an output voltage;

an additional current path that can be opened and closed, said additional current path formed such that a current flowing through said additional current path reaches basically immediately a desired value, when said additional current path is opened; and

a feedback circuit that opens said additional current path, when said output voltage across said output capacitor reaches a predetermined maximum value,

wherein the inductor provides the energy from the power supply to a parallel arrangement of the output capacitor and the additional current path.

2. (Original) Power converter according to claim 1, wherein said additional current path comprises a controllable current source.

3. (Original) Power converter according to claim 1, wherein said additional current path is a low impedance path.

4. (Original) Power converter according to claim 3, wherein said low impedance path comprises a resistor.

5. (Previously presented) Power converter according to claim 1, wherein said feedback circuit opens said additional current path for a predetermined time.

6. (Previously presented) Power converter according to claim 1, wherein said feedback circuit closes the additional current path when a second predetermined output voltage is reached.

7. (Previously presented) Power converter according to claim 1, wherein said feedback

circuit controls the additional current path based on said output voltage.

8. (Previously presented) Power converter according to claim 1, wherein said feedback circuit controls the additional current path based on a current through said inductor.

9. (Original) Power converter according to claim 1, wherein said power converter is one out of a group of a buck converter, a boost converter and a buck/boost converter.

10. (Previously presented) Method for controlling a power converter, the power converter including a current path having an inductor for receiving energy from a power supply and an output capacitor for providing an output voltage, said method comprising:

opening a controllable additional current path arranged in parallel to said output capacitor, when said output voltage across said output capacitor reaches a predetermined maximum value, such that a respective desired current flows basically immediately through said additional current path;

wherein the inductor provides the energy from the power supply to the parallel arrangement of the output capacitor and the additional current path.